

OCCUPATIONAL SURVEY REPORT

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OCCUPATIONAL SURVEY BRANCH USAF OCCUPATIONAL MEASUREMENT CENTER LACKLAND AFB TEXAS 78236

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PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Telecommunications Systems Control Specialty, AFSC 307X0.

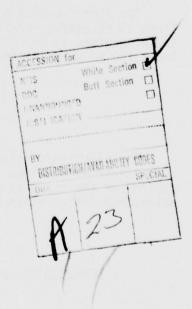
The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Captain Jerry M. Barucky. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center



ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT TELECOMMUNICATIONS SYSTEMS CONTROL CAREER LADDER AFSC 307X0

INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned to Telecommunications Systems Control Specialty (AFSC 307X0). The data for this report were collected during the period November 1976 through March 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel both CONUS and overseas and assigned to selected major commands.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

ADMINISTRATION

The Electronic Principles Inventory was administered by mail to AFSC 30750 airmen worldwide. Responses from 498 individuals represented 35 percent of the total of all AFSC 30750 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

TABLE 1
EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
1	MATHEMATICS	A1	4
2	DIRECT CURRENT AND VOLTAGE		4
2 3 4 5		A24	
Å	MILI TIMETER LISES	B52	5
5	RESISTANCE MULTIMETER USES ALTERNATING CURRENT	B61	4 5 6
6	INDUCTORS AND INDUCTIVE	B67	
U	REACTANCE	507	6
7	CAPACITORS AND CAPACITIVE	C92	
	REACTANCE	OJL	7
8	TRANSFORMERS	C128	8
9	MAGNETISM	C171	9
10	RCL CIRCUITS	D185	10
11	SERIES AND PARALLEL RESONANCE		
	(TIME CONSTANTS)	DLLJ	12
12	FILTERS	D239	12
13	COUPLING	E261	13
14	SOLDERING	E273	13
15	RELAYS	E294	14
16	MICDODHONES	F314	14
17	SPEAKERS OSCILLOSCOPES	F327	15
18	OSCILLOSCODES	F342	15
19	SEMICONDUCTOR DIODES	G354	15
20	SEMICONDUCTOR DIODES TRANSISTORS	G404	17
21	TRANSISTOR AMPLIFIERS	G428	18
22	SOLID-STATE SPECIAL PURPOSE	4420	10
22	DEVICES	H477	21
23	POWER SUPPLIES	H483	21
24	POWER SUPPLIES OSCILLATORS	H512	21
25	MULTIVIBRATORS	1539	22
26	I IMITERS AND CLAMPERS	1555	23
27	LIMITERS AND CLAMPERS ELECTRON TUBES	1565	23
28	ELECTRON TUBE AMPLIFIERS	J609	23
20	AND CIRCUITS	0003	24
29	SPECIAL PURPOSE ELECTRON	J616	
	TUBES		25
30	HETERODYNING, MODULATION, AND	J632	
	DEMODULATION		25
31	AM SYSTEMS	K638	25
32	FM SYSTEMS	K666	26
90			

TABLE 1 (CONTINUED)

EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER-	GPSUM PAGE NUMBER
33	NUMBERING SYSTEMS LOGIC FUNCTIONS BOOLEAN EQUATIONS COUNTERS	K685	27
34	LOGIC FUNCTIONS	L695	27
35	BOOLEAN EQUATIONS	L708	28
36	COUNTERS TIMING CIRCUITS USE OF SIGNAL GENERATORS	L733	29
37	TIMING CIRCUITS	M757	29
38			30
39	MOTORS AND GENERATORS	M779	30
40	METER MOVEMENTS	N808	31
41	MOTORS AND GENERATORS METER MOVEMENTS SATURABLE REACTORS AND	N818	
	MAGNETIC AMPLIFIERS		31
42	WAVESHAPING CIRCUITS SINGLE SIDEBAND SYSTEMS	N834	32
43		0845	32
44	PULSE MODULATION SYSTEMS	0875	33
45	ANTENNAS	0914	34
46	TRANSMISSION LINES	P953	36
47	WAVEGUIDES AND CAVITY .	P984	
	RESONATORS		37
48	MICROWAVE AMPLIFIERS AND	P1034	
	OSCILLATORS		39
49	OSCILLATORS REGISTERS STORAGE DEVICES	Q1110	41
50	STORAGE DEVICES	Q1117	42
51	DIGITAL TO ANALOG CONVERTERS	Q1126	42
52	PHANTASTRONS SCHMITT TRIGGERS CABLE FABRICATION INPUT/OUTPUT DEVICES PHOTO SENSITIVE DEVICES SYNCHRONOUS VIRDATIONS	Q1140	43
53	SCHMITT TRIGGERS	R1141	43
54	CABLE FABRICATION	R1144	43
55	INPUT/OUTPUT DEVICES	S1146	43
56	PHOTO SENSITIVE DEVICES	\$1149	43
57	SYNCHRONOUS VIBRATIONS	\$1150	
	(CHOPPER CIRCUITS)		43
58	INFRARED	T1159	43
59	LASERS	T1186	44
60	DISPLAY TUBES	T1220	45
61	PROGRAMMING	U1234	45
62	DB AND POWER RATIOS		46

TABLE 2

COMMAND REPRESENTATION OF SURVEY SAMPLE

	30	750
COMMAND	PERCENT ASSIGNED	PERCENT OF SAMPLE
AFCS	85	69
All OTHERS	15	31
TOTAL	100	100

Total Assigned - 1421 Total Sampled - 498 Percent Sampled - 35

PRESENTATON OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 2 of the GPSUM lists the five selected groups identified for this report. Pages 4-46 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on pages 8-9 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Meter Movements (p. 31), Alternating Current (p. 6), and Oscilloscopes (p. 15) to low in areas such as Infrared (pp. 43-44), Lasers (pp. 44-45), and Display Tubes (p. 45). Additional AFSC 307XO data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDIX

PAGE 1 AT HUMAN RESOURCES LABORATORY	PAGE	GRPS							
100		S. SY SELECTED GRPS					and the second s		
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r	TIMING CIRCUITS, USE OF SIGNAL GENERATORS.	69	99	73	69	7,1	
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	SATURABLE REACTORS,	7.8	16	19	16	82	
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27 23-24 00 700 ADJUST RESISTORS.

28 23-25 00 700 CHECK NEFT PROVE OR RESISTORS.

29 43-26 00 700 REMOVE OR REFER RESISTORS.

30 43-27 00 700 USE OR REFER TO TEMPERATURE CUEFFICIENTS FOR RESISTOR SYMBOLS OR TAPPED RESISTOR SYMBOLS. 11-09 DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS.
AI-10 DO YOU PERFORM CALCULATIONS ON VECTOR QUANTITIES.
AI-11 DO YOU WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS YOU WORK WITH RESISTORS IN YOUR PRESENT JOB. .3-10 00 YOU USE RESISTOR COLOR CODES ANICH INDICATE 16 A2-02 DO YOU USE THE TERM ELECTROMOTIVE FONCE (EMF 17 A2-03 DO YOU USE THE TERM OHM. 18 A2-04 DO YOU USE THE TERM ION. SIME, COSINE, OR TANGENT.

11-12 DG YOU DETERNINE AREAS OF PLANE FIGURES.

21-13 DG YOU SOLVE OR USE SIMULTANEOUS EQUATIONS.

21-14 DG YOU SOLVE OR USE PROPORTIONS.

A2-01 DG YOU USE THE TERM YOUTAGE OR YOLT (Y). -08 DO YOU SOLVE QUADRATIC EQUATIONS. PLT MBHS RESPONDING .YES. BY SELECTED GRPS 19 A2-05 DO YOU USE THE TERM DYNE. 20 A2-06 DO YOU USE THE TERM AMPERE. 21 A2-07 DO YOU USE THE TERM NEUTRON. 22 A2-08 DO YOU USE THE TERM COULONS. 23 A2-39 DO YOU USE THE TERM PROTON. DO YOU INSPECT RESISTORS. TASK SAOUP SUMMARY THUSE OF MESISTANCE. CALCULATIONS. 13

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D 189 01-05 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL	2	2	-	-	9	
D 190 DI-00 DO YOU USE OR REFER TO TANGENT MEN MORKING MITH RCL	2	7	-	-		
D 191 01-07 DO YOU USE OR REFER TO MATTS WHEN FORKING WITH RCL	S	1	7	2	11	
D 192 DI-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING	•	*	2	2	1	
0 193 31-39 BO YOU USE OR REFER TO MAXIMUM POJER (PM) WHEN NORKING MITH RCL CIRCUITS	•		-	_	•	
194 DI-10 DO YOU USE OR REFER TO AVERAGE POWER (PAVE) WHEN	*	.n	7	2	•	
D 195 DI-11 DO YOU USE OR REFER TO APPARENT POWER (PA) WHEN MORKING WITH RCL CIRCUITS	2	2	-	-	9	The same state of the same sta
D 196 DI-12 DO YOU USE OR REFER TO POWER FACTOR (PF.) WHEN WORKING WITH RCL CIRCULTS	2	•	0	-	1	
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198 DI-14 DO YOU USE OR REFER TO BANDWIDTH WHEN WORKING MITH	0	•	S		1.6	
199 DI-15 DO YOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH	S	1	6	7 1	•1	
2 200 01-16 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN	•		3	2	,,	
D 201 01-17 00 YOU USE OR REFER TO MALF POWER POINTS WHEN	2	•	-	-	7	
S 202 01-18 00 YOU USE OR REFER TO BANDPASS REGION WHEN WORKING	•	00		3		
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520 43-09 00 10U USE OR	ER TO FREQUENCY DETERMINING DEVICES	-	*	•	57		
521 H3-10 DO YOU USE	TO AMPLIT	54	•	30	23 28		
22 H3-11 DO YOU USE OR	TO FREQUENCY	90	3.6				
523 H3-12 DO YOU USE OR	TO DAMPING	9	*	1.	13 22		
52" H3-13 DO TOU USE OR	TO REGENERATIVE	6	12	9 .	12 16		
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13-25 DO YOU CALCULATE ACTUAL	-	-	0	•	•
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VOLTAGE FOR A SPECIFIED BIAS 13-31 DO YOU USE CHARACTERISTIC CUR	-	-			
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BON 13-40 TOU CALCUATE ANY ELECTRON TUBE CAPACITANCES SUCH	0	-	0	- 0	
13-41 DO TOU USE OR REFER TO	-	-		•	
607 13-43 DO TOU USE OR REFER TO PIN NUMBERING SYSTEMS	- -	× -	00	•	
OPERATING TEMPERATURE OF THE EMITTING			1		
608 13-44 DG TOC USE OF REFER TO TUBE SUBSTITUTION MATERIAL SUCH AS MANUALS OR CHARTS	-	~		•	
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	CLEON! TAGE 29	AIR FURCE STREETS CORRAND
TASK GROUP SUMMARY		
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OF AMPLIFIER UZ-31 DG YOU WORK WITH GAS TURES (HO	6 1 1 2 2	
CATHODE)		
618 JZ-02 UD YOU USE OR REFER TO THE CHARACTERISTICS OF BEAM	2 0 0	SPECIAL PURPOSE ELECTRON TUBES
SIF JETT DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM	2 0 0 1 1	
620 J2-US DO YOU USE OR REPER TO THE CHARACTERISTICS OF	1 2 0 0 3	
AZI JZ-04 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH	1 2 0 0 3	
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OR REFER TO THE PRINCIPLES OF OP	2 2 2 1 4	
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N TO LINE WE NO WORK ON THE STATE OF THE STA	36 36	
US-02 DO YOU PERFORM TASKS ON FREQUE	-	STATE OF THE PROPERTY OF THE P
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13-05 DO YOU PERFORM TASKS ON REACT	0	4. 1001
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PCT MORS RESPONDING TEST BY SELECTED GAPS		SPSUMI PAGE	PAGE 20	ALR FORCE SYSTEMS COMMAND
TASK GROUP SUNHARY				
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1 DO YOU PERFORM TASKS ON AUDIO	7 10	•	5 12	
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S DO YOU PERFORM TASKS ON DETECT	7	0	•	
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662 41-25 00 YOU USE OR REFER TO	2 2	9 0		
663 KI-26 DO YOU USE OR REFER TO SIGNAL				
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669 42-34 DO YOU ALIGN FM TRANSMIT OR RECEIVE SY	2 2	*		
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671 42-36 30 YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE	9 9	•		
K 572 K2-37 33 YOU REMOVE OR REPLACE FM TRANSMIT OR RECEIVE	•	•	3 9	
573 -2-38 O YOU REHOVE OR REPLACE FM TRANSHIT OR RECEIVE	2 2	2	•	
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SUBTRACTION METHOD **3-10 DO YOU ADD DETAL NUMBERS TO GET A SUM **1-10 TO YOUR PRESENT JOB; DO YOU PERFORM ANY FASKS **1-11 TH YOUR PRESENT JOB; DO YOU PERFORM ANY FASKS **2-11 THE TO LOGIC FUNDTIONS **1-62 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS **1 O	
A3-10 DO YOU ADD DETAL NUMBERS TO GET A SUN LI-UI IN YOUR PRESENT JOB: DO YOU PERFORM ANY TASKS Z Z I AELATING TO LOGIC FUNCTIONS LI-GZ DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS 0 1 0	-
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STANDER WITH STATE INDICATORS	The second secon
697 L35 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC 0 1 0 0	0
STRBOLS OR GATES 700 LI-06 BD 700 USF OR REFER TO TRUTH TABLES FOR AND LOSIC 0 1 0 0	
STRBOLS OR GATES	
701 X1-X7 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC 0 0	7 0
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SE OR REFER TO LOGIC SYMBOLS FOR AND GATES	9 2
THE CO TO USE OR REFER TO LOGIC STABOLS FOR MAND OR MOR O	
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PET MENS RESPONDING .YES. BY SELECTED GRPS		GPSUM! PAGE	26 AT HUHAN RESDURGES LABORATORY 26 AIR FORCE SYSTEMS CONTAND
TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING			
DY=15K	SPL SPL 001 002	5PL 5PL 003 004	SPL
707 LI-13 DO TOU USE OR REFER TO LOGIC. STHBOLS FOR EXCLUSIVE		0	
1	0	0	0
OU DRAM LOGIC SYMBOLS FOR DIRECT COUNTED	0	0	
TRANSISTOR LOGIC (OCTL) CIRCUITS 710 L2-03 DO YOU CONSTRUCT TRUIM TABLES FOR CURRENT MODE LOGIC	0	0	1 BOOLEAN EQUATIONS
CALL CINCUITS CALL CINCUITS CALL DIVEN BOOLEAN	0	0	52
EQUATIONS 112 L2-05 DO YOU MEASURE INPUTS OR OUTPUTS OF LOGIC GATES	0	0	_
713 L2-04 DO YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE	0	0	
CIRCUITS	0	0	
	0	0	-
-	0	0	_
	0	0	-
	0	0	_
719 L2-12 DO TOU TACE DATA FLOW THROUGH PARALLEL FULL ADDER	0	0 0	
720 LT-13 DO TOU MORK MITH ASTABLE (FREE RUNNING)	0	0	
721 L2-14 DO YOU WORK WITH BISTABLE (FLIP-FLOP) MULTIVIBRATORS 722 L2-15 DO YOU WORK WITH MONOSTABLE (ONE-SHOT)	00	00	
TIVIBRATORS	0		
724 LZ-17 DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIBRATOR	0	0	
OC YOU USE OR REFER TO FLIP-FL	0	0	
LZ-19 DO 700 USE OR REFER TO FLIP-FLOP LZ-20 DO 700 USE OR REFER TO COMPLEMENT		00	
LUGIC SYMBOLS 123 L2-21 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC	0	0	-
	-	c	
L 733 L2-23 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP	0		
731 L2-29 DU YOU TACE DATA FLOW THROUGH COMPLEMENTING FLIP-	0	0	_
732 -2-25 32 130 CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP	0	0	-

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	GESCH! PASE 29 AIR F	PORCE SYSTEMS COMMAND
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CE. T DEMBERS PERFORMING		
SYETSK DD1	001 002 003 004 005	
13-31 DO YOU MORK MITH DIGITAL COUNTERS IN YOUR PRESENT 409	22 29 19 21 24	
THE TAIL OF YOU CAN ON REPENDENCE TO CONTRACT THE TAIL TH	5 7 2 3 10 COUNTERS	503
13-34 DO YOU USE OR REFER TO SERIAL COUN	2 2 .	
CO YOU USE OR REFER TO	-	
L3-32 DO YOU USE OR REFER TO DECADE COUNTER	7 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
S DO YOU USE OR REFER TO COUNT DETEC	* · · · · · · · · · · · · · · · · · · ·	
742 (3-10 bo You Use of Agree To UP CLOCKS	2 2	The second secon
3 .3-11 DO YOU TRACE DATA FLOW THROUGH LOS	1 1 0 0 2	
UP-COUNTERS HAVING COMPLEMENTED FLIP-PLOPS		
THE LATE DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRANS OF	1 0 0 1	
745 L3-13 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	2 3 0 0 5	
DECADE COUNTERS		
746 L3-14 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	1 1 0 0 2	
747 L3-15 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	1 2 0 0 3	
SERVIAL UP-LOCUTERS TREDING A PARALLEL STORAGE REGISTER		
STIFT REGISTERS		
249 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	3 4 2 3 5	
E BINARY COUNT AF	. 0 0 1	
TENTED FLIP-FLD	c	
PULSES FOR SERIAL UP. OR DOWN-COUNTERS MAYING COMPLEMENT.	•	
TER	1 1 0 0 2	
A 7 7 8		
PULSES FOR OTHER TYPES OF COUNTERS		
LISTZ DO TOU CONSTRUCT TRUTH TABLES FROM LOGIC DIAGRAMS OF	1 0 0 1	many of the second seco
755 L3-23 DO YGU DETERMINE THE STATE OF EACH FLIP-FLOP IN RING	1 0 0 1 0	
COUNTERS FOR SPECIFIC INPUT PULSES 256 LB-24 DO YOU DETERMINE THE APPROPRIATE AND GATE METERSSARY	, , ,	
I' COUNT DETECT CIRCUITS TO INDICATE A REA	•	
I-CI DO YOU WORK WITH SANTOOTH MAVE GEN	5 1 4 C CONTRACTOR OF THE STATE	
756 11-52 DO TOU MORK MITH PRAPERSONS MANE GENERATORS	3 6 1 1 2	
FEEDBACK	7 7 8	
762 1-64 DO YOU MORK WITH PULSED OSCILLATORS AITHOUT	3 4 2 1 8 IIMIN	TIMING CIRCUITS

PCT MBRS RESPONDING TEST BY SELECTED GRPS		6 PS	GPSUM! PAGE	00 30	ATR FORCE SYSTEMS CONTAND
TASK GROUP SUNHARY	2:				
SERCENT SERBERS PERFOREING					
DYSTSK	SPL SP	SPL SP	SPL SPL 003 064	SPL 00%	
NORK WITH BLOCKING OSC.	•	,	_	,	
762 FILDS ON YOU USE OR REFER	* "	~ "		=	
744 HI-08 DO YOU USE OR REPER TO SHEEP T	11			12	
THE MINOR DO YOU USE OR REFER TO ELECTRICAL LENGTH OF SANTOOTH	*	•		11	
A 766 HI-10 DO YOU USE OR REFER TO PHYSICAL LENGTH OF SANTOOTH	•	9	1	10	
H 767 "1-11 DO YOU USE OF REFER TO LINEAR SLOPE OF SAKTOOTH	•	•	2	1	
A 768 11-12 DO TOU USE OR REFER TO GATE LENGTH OF SAWTOOTH	•		0 0		
- 769 -2-01 DO TOU USE STENAL GENERATORS IN YOUR PRESENT JOB			69 83	67	
U PERFORM OPERATIONAL CHE		9 9 9	57 54		
PERFORM PERIODIC MAINTE	•	•	24 19	20	USE OF SIGNAL
A 772 X2-04-00 TOU TROUBLESTON TO AN ASSENSITY ON SUBASSESSITY	5-1	1.2	16 12	17	GENERATORS
WHILE USING SIGNAL GENERATORS	-	1	1		a. Bibliogram de orden de la companya de la company
N 773 M2405 DO 100 TROUBLESHOOT TO THE SMALLEST REPLACEABLE COMPOMENT WHILE USING SIGNAL GENERATORS	7	e	_	so.	
774 M2-06 DO YOU USE AUDIO SINE-MAVE GENERATORS	55	05	61 53	57	
AS SQUARE WAVE, TRIANGLE, PULSE, OR					
776 MZ-08 DO TOU USE NF GENERATORS LESS	-	0			
12-10 BO YOU	27		22 23	- °	
	2	3	1 2	3	
SITH ALTERNATING CURRENT OR DIRECT CURRENT HOTORS OR					
781 -3-03 00 700	-		00	**	MOTORS AND GENERATORS
THE TATE NO TOU OFFIRE NOTORS	- 0			~	
13-06 50 YOU	3 0		00		THE STORY LAND WINDOWS TO STORY
13-07 30 YOU TROUBLESHOOT AS FAR AS C	-	-		2	
3-36 30 700	0	-		-	A STATE OF THE REAL PROPERTY OF THE PROPERTY O
787 -3-09 DO YOU PERFORM ANY TASKS ON FIELD COILS	-	-		2	
TARRESTON TO THE PROPERTY AND TARKED ON ANTACOMES				~ .	
3-12 30 73U PERFORM ANY TASKS ON BR	-	-	0	2	
SILE OF YOU PERFORM ANY TASKS ON SILE	-	-		1	
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1 2 2	3-16 DO YOU DETERMINE OR MEASURE	0	0	-	
7 7	TOTAL DE TOTAL CREATED BY A MOTOR	0	0	0	
	ANICAL FORCE OR TORQUE CREATED BY A NOTOR				
196	"3-18 JO YOU DETERMINE OR MEASURE THE	-	0	2 0	
	JIRECTION OF THE INDUCED VOLTAG				
	3-19 DO YOU PORK MITH SYNCHRONOUS	-	0	2	
B 0	THE TANK THE PROPERTY OF THE PARTY OF THE PA		0 0	~ .	
0000	-3-22 DO YOU	-	0		
1	3-23 DO YOU INSPECT GENERATORS	-	-	. 7	
1 60	13-24 DO YOU	-	0	2	The same of the sa
0	DO YOU OPERATE GENERATORS	2 2	1	2 2	
1	DO YOU REMOVE OR REPLACE CO	0	0	-	
000	DO TOU REMOVE OF REPLACE SENERATOR PARTS	-	0	-	the second secon
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2	ALEGS DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF		0	8	METER MOVEMENTS
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2 00 Z	0 +0-1×	1 1	•	6 1	
	SPIRAL SPRIN		:		
710	NI-JO GO TOU READ METER SCALES	75 73	77	7 P	
0 1	107 DO YOU AND ONLY FIRM	33 30	0 0	30	
913	MI-08 DO YOU ZERO AMMETERS	22 23	20	. 8	
. 615	VI- 9 DO YOU EXTEND THE RANGE OF V		58	1	
. 317	VITTO DO YOU USE ON REFER TO VOLTH		20	16 20	
616	U WORK MITH SATURABLE R	-	0	0	
	N YOUR PRESENT JOB				
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31 42-14 DO YOU USE OR REFER TO FLUX DENSITY IN SATURABLE	0	-	0	-	
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02-31 DO YOU USE OR REFER TO PULSE MIDTH (PM)		•	
O 906 02-32 00 TOU USE OR REFER TO PULSE SHAPE	e e		
909 02-34 00 YOU USE OR REFER TO AVERAGE PONER	•	1 1 7	THE STREET OF THE PARTY OF THE
C 909 C2-35 DO YOU CALCULATE PULSE RECURRENCE TIME (PRT) OR PULSE Recurrence Freduency (PRF)	-	•	
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O 911 02-37 DO TOU USE FORMULAS TO CALCULATE AVERAGE POWER OR PEAK POWER OF BULSE MODULATION TRANSMIT SYSTEMS	2 3	-	
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0 913 02-19 DO TOU TRACE SIGNALD OR CURENT PATHS THROUGH PULSE	2 2		
C 914 03-01 00 TOU WORK MITH ANTENNAS IN YOUR PRESENT JOB	13 16	11 11 20	

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TASK GROUP SUMMARY		
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03-04 00 YOU		
918 03-05 00 TOU FLECTRICALLY ALIGN ANTENNAS	7 7 7 6 9	
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03-08 DO YOU REMOVE OR INSTALL ANTENNAS	0 2	
923 33-10 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING	0 0 0	mental in a manuscripture and the contraction of th
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928 03-15 DO YOU USE OF REFER TO THE GENERAL RULE THAT ANTENNAS	6 0 0 3	The second secon
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929 03-16 00 YOU BORK BITH HERTZ ANTENNAS	0-0-0-	
U3-18 DO YOU MORK WITH BROADSIDE ARRA	0	
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934 03-21 DO YOU WORK WITH COLLINEAR ARRAYS	200	
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539 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTHIC (E)	, 2 0 2	
940 03-27 00 700 USE OR REFER TO THE TIME PASS OF ELECTRIC (E)	1 2 0 0 5	
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PET YERS RESPONDING ITES BY SELECTED GRPS	GPSUM1 PAGE 43	AT HUMAN REBOURGES LABORATORY
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S3-05 DO YOU USE OR REFER TO VOLTAG	0	(CHOPPER CIRCUITS)
	1 0 0 1 1	
CIRCUIT OPERATION		
S1156 53-37 DO YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER		
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-19 DO YOU USE OR REFER TO A	00	
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TI-24 DO YOU PERFORM TASKS	00	
TI-26 DO YOU PERFORM TASKS ON SPHEM		
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72-34 DO YOU WORK WITH GALLIUM ARSENIDE	0		
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T3-32 00	0		
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TASK GROUP SUNMARY PERCENT MEMBERS PERFORMING		
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Electronic equipment	Training	
Electronic technicians		
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This report summarizes the	results of the adminis	tration of the Electronic
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Specialty (AFSC 307X). Th	e report gives a detai	led listing of the technical
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Superintends telecommunications systems technical operations and control facilities. Plans and organizes telecommunications systems control activities. Directs technical telecommunications systems control activities. Establishes and conducts on-the-job training for telecommunications systems control personnel. Inspects and evaluates telecommunications systems control activities.